

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-161-53
Relating to Exemptions Under Section 27156
of the Vehicle Code

GALE BANKS ENGINEERING
PowerPack Engine Package

Pursuant to the authority vested in the Air Resources Board by Section 27156 of the Vehicle Code; and

Pursuant to the authority vested in the undersigned by Section 39515 and Section 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the installation of the PowerPack Engine Package, P/Ns 49245, 49280-49283, and 49290 manufactured and marketed by Gale Banks Engineering, 546 Duggan Avenue, Azusa, California 91702 has been found not to reduce the effectiveness of the applicable vehicle pollution control system and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for 1994-98 Dodge trucks equipped with the 5.9 liter Cummins turbo diesel engine, and 1993-98 5.9 or 8.3 liter Cummins turbo diesel engines in a medium or heavy duty truck application. The following table list part numbers with their application.

<u>Part Number</u>	<u>Application</u>
49245	1993-98 5.9 liter Cummins turbo diesel engine in a medium or heavy duty truck application
49280	1994-97 non-EGR Dodge 5.9 liter Cummins
49281	1998 non-EGR Dodge 5.9 liter Cummins
49282	1994-97 w/ EGR Dodge 5.9 liter Cummins
49283	1998 w/ EGR Dodge 5.9 liter Cummins
49295	1993-98 8.3 liter Cummins turbo diesel engine in a medium or heavy duty truck application

The Engine Package includes the following main components: For 1994-98 Dodge trucks equipped with the 5.9 liter Cummins turbo diesel engine; a new K&N style air filter element that is installed in the stock air filter housing, a new twin-ram intake manifold, the stock 12 cm² turbine housing is replaced with a 14 cm² turbine housing, high flow tailpipe, and Banks' OttoMind Fuel Calibration Plate is installed in the fuel pump. For 1993-98 medium/heavy duty 5.9 or 8.3 liter Cummins turbo diesel engines; the stock 12 cm² turbine housing in the 5.9 liter is replaced with a 14 cm² turbine housing, the 19 cm² turbine housing in the 8.3 liter is replaced with a 17 cm² turbine housing, a twin-ram intake manifold and Banks' OttoMind Fuel Calibration Plate is installed in the fuel pump. **The tamper proof screw that is included in the kits must be installed to replace the original anti-tamper proof screw. Failure to install would invalidate this Executive Order.**

This Executive Order is valid provided that the installation instructions for the PowerPack Engine Package will not recommend tuning the vehicle to specifications different from those of the vehicle manufacturer.

Changes made to the design or operating conditions of the PowerPack Engine Package, as exempt by the Air Resources Board, which adversely affect the performance of the vehicle's pollution control system shall invalidate this Executive Order.

Marketing of the PowerPack Engine Package using any identification other than that shown in this Executive Order or marketing of the PowerPack Engine Package for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of the PowerPack Engine Package shall not be construed as exemption to sell, offer for sale, or advertise any component of the kit as an individual device.

This Executive Order does not constitute any opinion as to the effect the use of the PowerPack Engine Package may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on submitted emissions and opacity test data on a 1997 Dodge 3500 truck with a 5.9L diesel engine. Testing consisted of comparative Cold Start 505 Federal Test Procedures and the snap idle opacity test. The following test results, in grams per mile, showed that the difference between the modified and baseline emissions results were within the allowable limits as specified under the "Procedures for Exemption of Add-On and Modified Parts:

	HC	CO	NOX	PARTICULATES	OPACITY (Percent)
Stock	0.26	0.9	5.8	0.001	28, 26, 30, 39
PowerPack	0.22	0.8	6.0	0.0004	27, 27, 32, 25

This Executive Order is also based on On Board Diagnostic II (OBD II) testing conducted on the same 1997 truck. Test data showed that the PowerPack when installed on the vehicle did not affect the vehicle's ability to perform its OBD II monitoring.


In addition to the foregoing, the ARB reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of Title 13, California Code of Regulations, Section 2222, et seq.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF GALE BANKS ENGINEERING'S POWERPACK ENGINE PACKAGE.

No claim of any kind, such as "Approved by the Air Resources Board", may be made with respect to the action taken herein in any advertising or other oral or written communication.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after a ten-day written notice of intention to revoke the order, in which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request and the order may not be revoked until a determination after hearing that grounds for revocation exist.

Executed at El Monte, California, this 9th day of October 1998.


R. B. Summerfield, Chief
Mobile Source Operations Division